CATALOG DOCUMENTATION
EMAP SURFACE WATERS PROGRAM LEVEL DATABASE
1991-1994 NORTHEAST LAKES DATA
LAKE BREEDING BIRD COUNT DATA

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1. DATA SET IDENTIFICATION

1.1 Title of Catalog Document
EMAP Surface Waters Lake Database
1991-1994 Northeast Lakes
Breeding Bird Count Data Summarized by Lake

1.2 Authors of the Catalog Entry
U.S. EPA NHEERL Western Ecology Division
Corvallis, OR

1.3 Catalog Revision Date
November 1996

1.4 Data Set Name
BRDCNT

1.5 Task Group
Surface Waters

1.6 Data Set Identification Code
0101

1.7 Version
001

1.8 Requested Acknowledgment
These data were produced as part of the U.S. EPA's Environmental Monitoring and Assessment Program (EMAP). If you publish these data or use them for analyses in publications, EPA requires a standard statement for work it has supported:

"Although the data described in this article have been funded wholly or in part by the U.S. Environmental Protection Agency through its EMAP Surface Waters Program, it has not been subjected to Agency review, and therefore does not necessarily reflect the views of the Agency and no official endorsement of the conclusions should be inferred."

2. INVESTIGATOR INFORMATION

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2.2 Investigation Participant - Sample Collection
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New York State Museum of Natural History
Oregon State University
SUNY Syracuse College of Environmental Sciences and Forestry
Queens University
University of Maine
U.S. Fish and Wildlife Service
U.S. Environmental Protection Agency
Office of Research and Development
Regions 1 and 2

3. DATA SET ABSTRACT

3.1 Abstract of the Data Set
The primary function of the lake bird count data set is to document the breeding bird species identified visually or auditorially at each lake.

3.2 Keywords for the Data Set
Breeding birds, avian species, riparian breeding birds, riparian habitat.

4. OBJECTIVES AND INTRODUCTION

4.1 Program Objective
The Environmental Monitoring and Assessment Program (EMAP) was designed to periodically estimate the status and trends of the Nation's ecological resources on a regional basis. EMAP provides a strategy to identify and bound the extent, magnitude and location of environmental degradation and improvement on a regional scale based on a probability-based statistical survey design.

4.2 Data Set Objective
This data set is part of a demonstration project to evaluate approaches to monitoring lakes in EMAP. The data set contains the results of surveys of breeding birds found in the riparian zones of lakes in the Northeast at each lake during the spring breeding season.

4.3 Data Set Background Discussion
Riparian breeding birds are a key component of the lake ecosystem. Their use of the riparian zone for breeding is an indication of quality of lake riparian habitat.

4.4 Summary of Data Set Parameters
Parameters include average number of individuals per point count identified within a breeding species, by abbreviated species code. The full genus and species name associated with each code can be found in the LAKE BREEDING BIRD NAMES dataset.

5. DATA ACQUISITION AND PROCESSING METHODS

5.1 Data Acquisition
5.1.1 Sampling Objective
The objective of the breeding bird survey was to identify the use of the riparian zone of lakes by birds during the spring breeding season.

5.1.2 Sample Collection Methods Summary
Breeding birds were identified at specified stops around the lake perimeter. These stops were accessed by boat. Visual and auditory identifications were made at each stop and habitat type identified. Data from stops were tabulated individually and then for the lake as a whole.

5.1.3 Sampling Start Date
June 2, 1991

5.1.4 Sampling End Date
June 22, 1995

5.1.5 Platform
Sampling was conducted from small boats.

5.1.6 Sampling Gear
Visual and auditory identification was made by the observer. Binoculars were used as part of the sampling gear for visual observations.

5.1.7 Manufacturer of Instruments
NA

5.1.8 Key Variables
Start and stop time of the survey were recorded. Vegetation type and weather were also recorded for each stop.

5.1.9 Sampling Method Calibration
NA

5.1.10 Sample Collection Quality Control
See Baker at al. 1997.

5.1.11 Sample Collection Method Reference
Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group.

5.1.12 Sample Collection Method Deviations
NA

5.2 Data Preparation and Sample Processing
5.2.1 Sample Processing Objective
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.2 Sample Processing Methods Summary
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.3 Sample Processing Method Calibration
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.4 Sample Processing Quality Control
See Baker et al. (1997) and Chaloud and Peck (1994).

5.2.5 Sample Processing Method Reference
See Baker et al. (1997) and Chaloud and Peck (1994).

6. DATA MANIPULATIONS

6.1 Name of New or Modified Values
None.

6.2 Data Manipulation Description
See Chaloud and Peck (1994).

7. DATA DESCRIPTION

7.1 Description of Parameters

#	Parameter Name	Data Type	Len	Format	Parameter Label
5	CNTIND	Num	8		mean # of individ./point count
2	DATE_COL	Num	5	MMDDYY	Date of survey
9	LAKENAME	Char	30		Lake Name
1	LAKE_ID	Char	6		Lake Identification Code
10	LAT_DD	Num	8		Lake Latitude (decimal degrees)
11	LON_DD	Num	8		Lake Longitude (-decimal degrees)
3	ORNITH	Char	3		Initials of ornithologist
8	SAMPLED	Char	20		Site sampling status
4	SPECIES	Char	4		4-letter species code (see BIRDCODE)
7	VISIT_NO	Num	8		Visit number within year
6	YEAR	Num	8		Sample year

7.1.1 Precision to Which Values are Reported

7.1.2 Minimum Value in Data Set by Parameter

Name	Min
CNTIND	0.042
LAT_DD	39.2262
LON_DD	-78.8519
VISIT_NO	1
YEAR	1991

7.1.3 Maximum Value in Data Set by Parameter

Name	Max
CNTIND	14
LAT_DD	47.2125
LON_DD	-67.30111
VISIT_NO	2
YEAR	1995

7.2 Data Record Example

7.2.1 Column Names for Example Records

```
CNTIND DATE_COL LAKENAME LAKE_ID LAT_DD LON_DD ORNITH SAMPLED SPECIES VISIT_NO
YEAR
```

7.2.2 Example Data Records

```
0.15,06/23/94,"SHADOW LAKE","VT753L",44.6687,-72.225,"APA","Yes","BRSW",1,1994
0.2,06/23/94,"SHADOW LAKE","VT753L",44.6687,-72.225,"APA","Yes","BTBW",1,1994
0.1,06/23/94,"SHADOW LAKE","VT753L",44.6687,-72.225,"APA","Yes","BTGW",1,1994
0.1,06/23/94,"SHADOW LAKE","VT753L",44.6687,-72.225,"APA","Yes","BWWA",1,1994
0.05,06/23/94,"SHADOW LAKE","VT753L",44.6687,-72.225,"APA","Yes","CAWA",1,1994
```

8. GEOGRAPHIC AND SPATIAL INFORMATION

8.1 Minimum Longitude
-78 Degrees 51 Minutes 6.84 Seconds West (-78.8519 Decimal Degrees)

8.2 Maximum Longitude
-67 Degrees 18 Minutes 4.00 Seconds West (-67.30111 Decimal Degrees)

8.3 Minimum Latitude
39 Degrees 13 Minutes 34.32 Seconds North (39.2262 Decimal Degrees)

8.4 Maximum Latitude
47 Degrees 12 Minutes 45.00 Seconds North (47.2125 Decimal Degrees)

8.5 Name of Area or Region
Northeast: EPA Regions I and II which includes Connecticut, Massachusetts, Maine, New Hampshire, New Jersey, New York, Vermont, Rhode Island

9. QUALITY CONTROL / QUALITY ASSURANCE

9.1 Data Quality Objectives
See Chaloud and Peck (1994)

9.2 Quality Assurance Procedures
See Chaloud and Peck (1994)

9.3 Unassessed Errors
NA

10. DATA ACCESS

10.1 Data Access Procedures

10.2 Data Access Restrictions

10.3 Data Access Contact Persons

10.4 Data Set Format

10.5 Information Concerning Anonymous FTP

10.6 Information Concerning Gopher and WWW

10.7 EMAP CD-ROM Containing the Data

11. REFERENCES

Baker, J.R., G.D. Merritt, and D.W. Sutton (eds.). 1997. Environmental Monitoring and Assessment Program - Surface Waters: Field Operations Manual for Lakes. EPA/620/R-97/001. U.S. Environmental Protection Agency. Office of Research and Development. Washington, D.C.

Chaloud, D.J. and D.V. Peck. 1994. Environmental Monitoring and Assessment Program - Surface Waters: Integrated Quality Assurance Project Plan for the Surface Waters Resource Group. U.S. Environmental Protection Agency. Office of Research and Development. Washington, D.C.

12. TABLE OF ACRONYMS

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